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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,072	09/16/2003	Mahendra Kumar Sunkara	AD138/2001 3236	
7590 03/20/2006			EXAMINER	
David W. Carrithers			LUK, EMMANUEL S	
CARRITHERS LAW OFFICE One Paragon Centre .			ART UNIT	PAPER NUMBER
6060 Dutchman's Lane, Suite 140			1722	
Louisville, KY 40205			DATE MAILED: 03/20/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		.	Application No.	Applicant(s)			
Office Action Summary			10/664,072	SUNKARA ET AL.			
		E	xaminer	Art Unit			
		E	Emmanuel S. Luk	1722			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINIOR SIX (6) MONTHS from the mailing date of this come of period for reply is specified above, the maximum is present to reply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	MAILING DAT s of 37 CFR 1.136(a munication. tatutory period will a y will, by statute, ca	E OF THIS COMMUNICATION a). In no event, however, may a reply be ting apply and will expire SIX (6) MONTHS from use the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)[🛛	Responsive to communication(s) file	ed on <i>03 Febi</i>	ruary 2006.				
	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-40</u> is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	Claim(s) <u>12 and 26</u> is/are rejected.						
_	Claim(s) <u>1-11,13-25 and 27-40</u> is/are objected to.						
·	☐ Claim(s) are subject to restriction and/or election requirement.						
	•						
	on Papers						
9) The specification is objected to by the Examiner.							
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority)-(d) or (f).			
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 						
	Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* 5	* See the attached detailed Office action for a list of the certified copies not received.						
	see the attached detailed emiss delic	or tor a list or	are defined depies not rederve	u.			
Attachmen			_				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Paper No(s)/Mail Date							
	e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 o			ate atent Application (PTO-152)			
	r No(s)/Mail Date		6) Other:	, , , , , , , , , , , , , , , , , , , ,			
S Patent and Tr	ndomed Office						

Application/Control Number: 10/664,072

Art Unit: 1722

DETAILED ACTION

Page 2

Terminal Disclaimer

1. The terminal disclaimer filed on 2/3/06 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of any patent granted on Application Number 10/187,460 has been reviewed and is accepted.

The terminal disclaimer has been recorded.

Double Patenting

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 12 and 26 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 and 2 of U.S. Patent No. 6,806,228. Although the conflicting claims are not identical, they are not patentably

Application/Control Number: 10/664,072 Page 3

Art Unit: 1722

distinct from each other because the patent teaches steps of forming a metal on a substrate, placing this in a pressure chamber, adding gaseous reactant, applying energy to the chamber, and continuing the process until fibers of desired length are formed. These are equivalent to the claimed steps in claims 12 and 26 of the instant application.

Allowable Subject Matter

- 4. Claims 1-11 are allowed.
- 5. Claims 13-25 and 27-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach the claimed method for creating nanowires having the steps of being placed on a substrate in a low-pressure chamber, being exposed to an energy, adding gaseous reactant, and continuing the process until the desired length are formed.

Response to Arguments

7. Applicant's arguments, see page 9, filed 1/17/06, with respect to the 112 rejections have been fully considered and are persuasive since the claims have been

Art Unit: 1722

amended to show the essential steps and the size of the nanowires. The rejection of claims 1 and 2 has been withdrawn.

However, a new rejection has been made in response to the new independent claims filed by the applicants.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel S. Luk whose telephone number is (571)

Application/Control Number: 10/664,072

Art Unit: 1722

272-1134. The examiner can normally be reached on Monday-Thursday 8 to 5 and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EL

DUANE SMITH
PRIMARY EXAMINER

Page 5

7-16-06